

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
JERRY W. MALCOLM

Serial No.: To Be Assigned

Filed: Herewith

For: PERSONALLY CUSTOMIZABLE  
CREDIT CARD ACCOUNTS

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Examiner: To Be Assigned

Art Unit: To Be Assigned

Attorney Dkt. No.: AUS000069US1

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By: Beth Costner

Beth Costner

TRANSMITTAL LETTER

Assistant Commissioner for Patents  
Washington, D.C. 20231

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DATE: September 28, 2000

Respectfully submitted,

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10926 U.S. PTO  
09/676573  
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DOCKET NUMBER: AUS000069US1  
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JC926 U.S. PTO  
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Sir:

Transmitted herewith for filing is the Patent Application of:

Inventor(s): Jerry W. Malcom

For: **PERSONALLY CUSTOMIZABLE CREDIT CARD ACCOUNTS**

Enclosed are:

- ☒ Patent Specification and Declaration
- ☒ 3 sheets of drawing(s).
- ☒ An assignment of the invention to International Business Machines Corporation (includes Recordation Form Cover Sheet).
- ☐ A certified copy of a ☐ application.
- ☒ Information Disclosure Statement, PTO 1449 and copies of references.

The filing fee has been calculated as shown below:

For	Number Filed	Number Extra	Rate	Fee
Basic Fee				\$690.00
Total Claims	25 - 20	5	x 18 =	\$ 90.00
Indep. Claims	4 - 3	1	x 78 =	\$ 78.00
MULTIPLE DEPENDENT CLAIM PRESENTED			x 260 =	\$
TOTAL				\$858.00

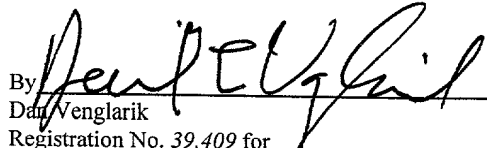
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PERSONALLY CUSTOMIZABLE CREDIT CARD ACCOUNTS

## BACKGROUND OF THE INVENTION

## 5        1.    Technical Field:

10        The present invention generally relates to charge accounts and in particular to security of and control over charge account use. Still more particularly, the present invention relates to account holder control over charge authorizations using charge account numbers.

## 2.    Description of the Related Art:

15        A major obstacle to broad public acceptance and use of e-business is reluctance of consumers to reveal their credit or debit card numbers over the Internet due to security concerns, both real and perceived. One fear is interception of the card number by a third party, although secure socket layer (SSL) encryption employed in secure Internet transactions renders such interception extremely improbable. However, the perception on the part of account holders remains.

25        Another concern, one having much more basis in reality, involves automatic renewal and rebilling by an enterprise upon expiration of a membership subscription. Although reputable businesses offer procedures to cancel membership subscriptions, the risk of either a potential argument over cancellation or an error or delay in cancellation, while rebilling continues, is enough to prevent some consumers from even considering using their charge accounts on the

30

Internet.

Various methods have been employed or proposed for improving security and reducing the risk of unauthorized rebilling in charge account use. "Single use" charge account numbers, for example, employ numbers associated with an account which are only valid for a single charging activity. After the account number has been used once, charging authorization on that account number is denied for all subsequent charge requests. This approach, however, places a tremendous burden on the existing credit card numbering scheme since only a finite range of unique numbers exists. Single use account numbers would quickly run through the entire range of permutations. Much larger ranges of numbers than are currently employed would be required for this solution to be practical.

An alternative solution involves adding prefixes or suffixes to existing account numbers to create single use account numbers for that account. However, this requires a larger number of digits for account numbers than are currently employed (typically sixteen) to uniquely identify an account, which would cause much existing software depending on the current number of digits within account numbers to function improperly. Moreover, while single use account charging activity is desirable in some situations, modification of all charging activity to involve single use account numbers is not desirable for many types of transactions.

It would be desirable, therefore, to enable an account holder to establish single use charging functionality for an account in selected situations, while retaining the ability

[illegible]

## SUMMARY OF THE INVENTION

It is therefore one object of the present invention to provide improved charge accounts.

It is another object of the present invention to provide improved security of and control over charge account use.

It is yet another object of the present invention to provide account holder control over charge authorizations using charge account numbers.

The foregoing objects are achieved as is now described. Account holders may specify vendor-specific charge restrictions for charging transactions against their accounts, where each vendor-specific charge restriction includes a unique identifier for the corresponding vendor to which the charge restriction is applicable. The charge restriction may be an exclusion from approval of all charge authorization requests, an amount limit on charge authorization requests which may be approved, a "rebill" limit on the number of times subsequent charge authorization requests may be approved, or a combination of such restrictions and/or other restrictions. When a charge authorization request is received for a charge against an account having vendor-specific charge restrictions set by the account holder, the vendor identifier is extracted from the charge authorization request and employed to determine whether any charge restrictions are applicable to the requesting vendor. The vendor-specific charge restrictions for a particular vendor may be specified by the account

5

[illegible]

## BRIEF DESCRIPTION OF THE DRAWINGS

The novel features believed characteristic of the invention are set forth in the appended claims. The invention itself however, as well as a preferred mode of use, further objects and advantages thereof, will best be understood by reference to the following detailed description of an illustrative embodiment when read in conjunction with the accompanying drawings, wherein:

**Figure 1** depicts a high-level block diagram of a credit card authorization system, in which a preferred embodiment of the present invention may be implemented;

**Figure 2** a block diagram of charge account information including vendor-specific charge restrictions specified by the charge account holder in accordance with a preferred embodiment of the present invention; and

**Figure 3** depicts a high level flow chart for a process of processing charge authorization requests utilizing vendor-specific charge restrictions specified by the charge account holder in accordance with a preferred embodiment of the present invention.



## DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the figures, and in particular with reference to **Figure 1**, a high-level diagram of a charging transaction authorization system in accordance with a preferred embodiment of the present invention is depicted. System **102** includes a number of requesting units **104a-104n** (where n is any integer) operating by vendor enterprises for the purposes of requesting charging transactions. As used herein, "charging transactions" and "charge account" refer to any transaction or account relating to payment by transfer of credit or funds through a third party account provider utilizing an account number, including without limitation credit card transactions and accounts, debit card transactions and accounts, "check card" transactions and checking accounts, and the like.

Requesting units **104a-104n** are capable of generating charge authorization requests for transmission over the Internet **106** to a charge authorization server **108** or similar charge authorization clearing facility. Charge authorization server **108** maintains a database **110** containing information regarding charge accounts which may be accessed utilizing the charge account number, including available credit or deposit balance for the account. Database **110** also includes vendor-specific charge restrictions specified by the account holder, described in further detail below. A user unit **112**, connected to charge authorization server **108** via Internet **106**, allows account holders to set or change vendor-specific charge restrictions for their account(s). Charge authorization server **108** provides an interface

allowing account holders to apply such vendor-specific charge restrictions to their account information within database 110.

5 Charge authorization requests transmitted by any of requesting units 104a-104n and received by charge authorization server 108 are processed by charge authorization server 108 utilizing the account information associated with the charge account number within the charge authorization request. The charge authorization requests also contain vendor identification information, which includes a unique vendor identifier for the vendor requesting the charge authorization and may optionally include the vendor name. Charge authorization server 108  
10 employs the vendor identifier and/or name in processing charge authorization requests utilizing account information within database 110. Other information, such as an identification of the account to be credited by the charge authorization, may also be contained within charge  
15 authorization requests in accordance with the known art.  
20

Although the exemplary embodiment depicts transactions being performed over the Internet 106, some or all of the transactions described above may occur between data processing systems having direct communications, such as  
25 requesting units which directly dial-up the charge authorization server over a telephone connection.

Referring to **Figure 2**, which is intended to be read in  
30 conjunction with **Figure 1**, a block diagram of charge account information including vendor-specific charge restrictions

specified by the charge account holder in accordance with a preferred embodiment of the present invention is illustrated. Database 110 contains a plurality of charge account records 202a-202n for different charge accounts (which may include checking accounts), each identified by a unique charge account number. Each charge account record 202a-202n contains the charge account number 204, together with a current available balance or credit amount 206.

Each charge account record 202a-202n also includes a listing of "allowed" vendors 208, "excluded" vendors 210, or both. Allowed and excluded vendors listings 208 and 210 are specified by the account holder and are employed in processing charge authorization requests. Charge authorization requests which would violate the restrictions specified by the account holder within allowed and excluded vendors listings 208 and 210 are declined; charge authorization requests which would not violate the restrictions specified by the account holder may be approved.

Allowed vendors listing 208 contains an entry for each vendor specified by the account holder, where each entry includes a unique (typically numeric or alphanumeric) identifier 212 for the vendor, and may also contain the vendor's name 214. Each entry within allowed vendors listing 208 may also contain an amount limit 216 specified by the account holder, designating an amount limit for each charge which may be approved for that vendor. The amount limit 216 may be undefined to allow approval of any amount, or may be a finite dollar amount, and may also have a

default value.

While the amount limit 216 could be simply a per-charge limit for the corresponding vendor, such a limitation would allow a number of smaller charges to be pushed through. Instead, amount limit 216 should preferably be a time-based limit (e.g., \$100 per month). In this manner, no consideration is given to whether the charges by the vendor are a single charge for the full amount, or a number of smaller charges. Charges in excess of the specified amount limit 216 during the corresponding period will be declined.

Each entry within allowed vendors listing 208 may also have a "rebill" limit 218, which specifies either an absolute number of subsequent charge authorizations which may be approved for the corresponding vendor or a number of billing periods during which charge authorization may be approved up to the amount limit 216. After charge authorization requests for the specified number of billings or billing periods have been approved, subsequent charge authorization requests will be declined. In this manner, the number of rebillings by a particular vendor may be controlled by the account holder. Rebill limit 218 and amount (per billing period) limit 216 combine to provide control over both the amount and the duration of charges by a particular vendor (e.g., \$100 per month for 12 months).

Excluded vendors listing 210 similarly contains an entry for each vendor specified by the account holder to be subject to special charge restrictions, with each entry containing a unique identifier 220 for the vendor and,

optionally, the vendor's name 222. Charge authorization requests from vendors identified within excluded vendors listing 210 will always be declined.

5           Allowed and excluded vendors listings 208 and 210 each include a flag, a decline-all-others flag 224 within allowed vendors listing 208 and an approve-all-others flag 226 within excluded vendors listing 210. Decline-all-others flag 224, when set, causes all charge authorization requests  
10           from any vendors not specifically identified within the approved vendors listing 208 to be declined. Approve-all-others flag 226, when set, causes all charge authorization requests from any vendors not identified within the excluded vendors listing 210 to be approved, subject to amount and  
15           rebill limitations (if any) set in approved vendors listing 208. Decline-all-others flag 224 and approve-all-others flag 226 should be mutually exclusive, and should not both be set at the same time.

20           Vendors may be added to either allowed and excluded vendors listings 208 and 210 by an account holder either through manual entry of vendor information, or by selection of a transaction within account records and automatic extraction of vendor information (vendor identifier and  
25           name) from the account transaction records. A dictionary of vendor identifiers indexed by vendor name may be provided to the account holder for adding vendors to listings 208 and 210. In this manner, vendor-specific charge restrictions, including charge amount and rebilling limits, may be  
30           specified by the account holder either before or after an

initial charge transaction.

Referring back to **Figure 1**, the account holder employs user unit **112** to set or change vendors within the allowed and excluded vendors listings for their account information within database **110**. Requesting units **104a-104n** generate and transmit charge authorization requests relating to the account holder's account, which are received by charge authorization server **108** and processed for approval utilizing the account information within database **110**. If a restriction set by the account holder within the allowed and excluded vendors listings would be violated by a received charge authorization request, the charge authorization request is declined in the response generated by charge authorization server **108**. If a received charge authorization request would not violate account holder restrictions, the charge authorization request may be approved, subject to other limitations such as available balance.

With reference now to **Figure 3**, a high level flow chart for a process of processing charge authorization requests utilizing vendor-specific charge restrictions specified by the charge account holder in accordance with a preferred embodiment of the present invention is depicted. The process begins at step **302**, which depicts receiving a charge authorization requests including a vendor identifier and a charge amount (together with a unique charge account number) at a charge authorization server. The process first passes to step **304**, which illustrates extracting the charge amount, the vendor identifier, and the charge account number from the charge authorization request.

The process next passes to step 306, which depicts a determination of whether the charge amount exceeds an available credit limit or account balance for the account identified by the account number within the charge authorization request. If not, the process proceeds to step 308, which illustrates a determination of whether the vendor identifier from the charge authorization request matches a vendor identifier within an allowed vendors listing associated with the subject account. If so, the process proceeds to step 310, which depicts a determination of whether an amount limit or a rebill limit specified by the account holder for the identified vendor would be exceeded by the requested charge to the account.

If a specified amount or rebill limit would be exceeded, the process proceeds to step 316, which illustrates declining the charge authorization request; if specified amount or rebill limits would not be exceeded (or if none are specified), the process proceeds instead to step 314, which depicts approving the charge authorization request.

Referring back to step 308, if the vendor identifier from the charge authorization request does not match any entry within the allowed vendors list associated with the account to be charged, the process proceeds instead to step 312, which illustrates a determination of whether the vendor identifier matches a vendor identifier within any entry in an excluded vendors listing associated with the account. If so, the process proceeds to step 316, which illustrates declining the charge authorization request; if not, the

process proceeds instead to step 314, which depicts approving the charge authorization request. From either of step 314 or 316, the process then proceeds to step 318, which depicts the process becoming idle until another charge authorization request is received.

The exemplary process of **Figure 3** is a simplistic example subject to myriad variations within the spirit and scope of the present invention. For example, the determination of whether vendor-specific charge restrictions (steps 308 and 310) have been specified by an account holder for the requesting vendor may be performed before the charge amount is compared to the available credit or account balance for the account. Moreover, additional steps may be performed to check the state of exclude-all-others and allow-all-others flags as described above before approving or declining a charge authorization request.

The present invention improves the security of employing charge accounts by permitting vendor-specific charge restrictions by the account holder. The account holder can thus achieve "single use" charging with respect to a particular vendor by setting charge restrictions for that vendor, either before or after the charging transaction. Amount limits may be specified by the account holder for budgeting purposes, and rebill limits may be specified by the account holder to avoid billing disputes.

It is important to note that while the present invention has been described in the context of a fully functional data processing system and/or network, those skilled in the art will appreciate that the mechanism of the



present invention is capable of being distributed in the form of a computer usable medium of instructions in a variety of forms, and that the present invention applies equally regardless of the particular type of signal bearing medium used to actually carry out the distribution.

Examples of computer usable mediums include: nonvolatile, hard-coded type mediums such as read only memories (ROMs) or erasable, electrically programmable read only memories (EEPROMs), recordable type mediums such as floppy disks, hard disk drives and CD-ROMs, and transmission type mediums such as digital and analog communication links.

While the invention has been particularly shown and described with reference to a preferred embodiment, it will be understood by those skilled in the art that various changes in form and detail may be made therein without departing from the spirit and scope of the invention.

## CLAIMS:

What is claimed is:

1 1. A method for managing charging transactions,  
2 comprising:  
3 enabling a designation, by an owner of a chargeable  
4 account number and in association with the chargeable  
5 account number, of at least one specified allowed vendor and  
6 a corresponding amount limit chargeable by the specified  
7 allowed vendor; and  
8 determining whether a current charging transaction for  
9 a specified amount by a charging vendor to the chargeable  
10 account number is within the designation.

1 2. The method of claim 1, wherein the step of enabling a  
2 designation of at least one specified allowed vendor and a  
3 corresponding amount limit chargeable by the specified  
4 allowed vendor further comprises:

5 enabling specification of the corresponding amount  
6 limit as a specified amount within a defined duration of  
7 time.

1 3. The method of claim 1, wherein the step of enabling a  
2 designation of at least one specified allowed vendor and a  
3 corresponding amount limit chargeable by the specified  
4 allowed vendor further comprises:

5 enabling specification of a number of times which the  
6 at least one specified allowed vendor is permitted to make a  
7 charging transaction within the corresponding amount limit  
8 on the chargeable account number.

1 4. The method of claim 1, further comprising:  
2 enabling a designation, by the owner of the chargeable

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1 5. A method for limiting charging transactions,  
2 comprising:

3 responsive to receiving a charge authorization request  
4 for a charge on a charge account designated by a unique  
5 charge account number, determining whether an account holder  
6 for the charge account has specified vendor-specific charge  
7 restrictions for charges against the charge account;

8 responsive to determining that the account holder has  
9 specified vendor-specific charge restrictions for the charge  
10 account, determining a vendor identifier from the charge  
11 authorization request and comparing the vendor identifier to  
12 a list of vendor identifiers for the vendor-specific charge  
13 restrictions; and

14 responsive to identifying a match between the vendor  
15 identifier from the charge authorization request and a  
16 vendor identifier within an entry in the list of vendor  
17 identifiers for the vendor-specific charge restrictions,  
18 employing a charge restriction associated with the matching  
19 entry in responding to the charge authorization request.

1 6. The method of claim 5, wherein the step of determining  
2 whether an account holder for the charge account has  
3 specified vendor-specific charge restrictions for charges  
4 against the charge account further comprises:

5 employing the unique charge account number to retrieve  
6 account records for the charge account.

1 7. The method of claim 5, wherein the step of determining  
2 a vendor identifier from the charge authorization request  
3 and comparing the vendor identifier to a list of vendor  
4 identifiers for the vendor-specific charge restrictions  
5 further comprises:

6 comparing the vendor identifier from the charge

7 authorization request to each vendor identifier within an  
8 entry in an allowed vendors listing associated with the  
9 charge account; and

10 comparing the vendor identifier from the charge  
11 authorization request to each vendor identifier within an  
12 entry in an excluded vendors listing associated with the  
13 charge account.

1 8. The method of claim 7, wherein the step of employing a  
2 charge restriction associated with the matching entry in  
3 responding to the charge authorization request further  
4 comprises:

5 determining whether a charge amount from the charge  
6 authorization request would exceed an amount limit specified  
7 within an entry in the allowed vendors listing; and

8 determining whether the charge would exceed a rebill  
9 limit specified within an entry in the allowed vendors  
10 listing.

1 9. The method of claim 7, wherein the step of employing a  
2 charge restriction associated with the matching entry in  
3 responding to the charge authorization request further  
4 comprises:

5 determining whether the allowed vendors listing  
6 specifies that charge authorization requests from all  
7 vendors not identified within the allowed vendors listing  
8 are to be declined.

1 10. The method of claim 7, wherein the step of employing a  
2 charge restriction associated with the matching entry in  
3 responding to the charge authorization request further  
4 comprises:

5 determining whether the excluded vendors listing

specifies that charge authorization requests from all vendors not identified within the excluded vendors listing are to be approved.

11. The method of claim 5, further comprising:

approving the charge authorization request if no charge restriction specified by the account holder for the charge account will be violated by the charge; and

declining the charge authorization request if any charge restriction specified by the account holder for the charge account will be violated by the charge.

11. The method of claim 5, further comprising:  
approving the charge authorization request if no charge  
restriction specified by the account holder for the charge  
account will be violated by the charge; and  
declining the charge authorization request if any  
charge restriction specified by the account holder for the  
charge account will be violated by the charge.

1 12. A system for managing charging transactions,  
2 comprising:

3 means for enabling a designation, by an owner of a  
4 chargeable account number and in association with the  
5 chargeable account number, of at least one specified allowed  
6 vendor and a corresponding amount limit chargeable by the  
7 specified allowed vendor; and

8 means for determining whether a current charging  
9 transaction for a specified amount by a charging vendor to  
10 the chargeable account number is within the designation.

1 13. The system of claim 12, wherein the means for enabling  
2 a designation of at least one specified allowed vendor and a  
3 corresponding amount limit chargeable by the specified  
4 allowed vendor further comprises:

5 means for enabling specification of the corresponding  
6 amount limit as a specified amount within a defined duration  
7 of time.

1 14. The system of claim 12, wherein the means for enabling  
2 a designation of at least one specified allowed vendor and a  
3 corresponding amount limit chargeable by the specified  
4 allowed vendor further comprises:

5 means for enabling specification of a number of times  
6 which the at least one specified allowed vendor is permitted  
7 to make a charging transaction within the corresponding  
8 amount limit on the chargeable account number.

1 15. The system of claim 12, further comprising:

2 means for enabling a designation, by the owner of the  
3 chargeable account number and in association with the  
4 chargeable account number, of at least one specified  
5 excluded vendor.

6 16. A system for limiting charging transactions,  
7 comprising:

8 means, responsive to receiving a charge authorization  
9 request for a charge on a charge account designated by a  
10 unique charge account number, for determining whether an  
11 account holder for the charge account has specified vendor-  
12 specific charge restrictions for charges against the charge  
13 account;

14 means, responsive to determining that the account  
15 holder has specified vendor-specific charge restrictions for  
16 the charge account, for determining a vendor identifier from  
17 the charge authorization request and comparing the vendor  
18 identifier to a list of vendor identifiers for the vendor-  
19 specific charge restrictions; and

20 means, responsive to identifying a match between the  
21 vendor identifier from the charge authorization request and  
22 a vendor identifier within an entry in the list of vendor  
23 identifiers for the vendor-specific charge restrictions, for  
24 employing a charge restriction associated with the matching  
25 entry in responding to the charge authorization request.

1 17. The system of claim 16, wherein the means for  
2 determining whether an account holder for the charge account  
3 has specified vendor-specific charge restrictions for  
4 charges against the charge account further comprises:

5 means for employing the unique charge account number to  
6 retrieve account records for the charge account.

1 18. The system of claim 16, wherein the means for  
2 determining a vendor identifier from the charge  
3 authorization request and comparing the vendor identifier to  
4 a list of vendor identifiers for the vendor-specific charge  
5 restrictions further comprises:



6 means for comparing the vendor identifier from the  
7 charge authorization request to each vendor identifier  
8 within an entry in an allowed vendors listing associated  
9 with the charge account; and

10 means for comparing the vendor identifier from the  
11 charge authorization request to each vendor identifier  
12 within an entry in an excluded vendors listing associated  
13 with the charge account.

1 19. The system of claim 18, wherein the means for employing  
2 a charge restriction associated with the matching entry in  
3 responding to the charge authorization request further  
4 comprises:

5 means for determining whether a charge amount from the  
6 charge authorization request would exceed an amount limit  
7 specified within an entry in the allowed vendors listing;  
8 and

9 means for determining whether the charge would exceed a  
10 rebill limit specified within an entry in the allowed  
11 vendors listing.

1 20. The system of claim 18, wherein the means for employing  
2 a charge restriction associated with the matching entry in  
3 responding to the charge authorization request further  
4 comprises:

5 means for determining whether the allowed vendors  
6 listing specifies that charge authorization requests from  
7 all vendors not identified within the allowed vendors  
8 listing are to be declined.

1 21. The system of claim 18, wherein the means for employing  
2 a charge restriction associated with the matching entry in  
3 responding to the charge authorization request further

comprises:

means for determining whether the excluded vendors listing specifies that charge authorization requests from all vendors not identified within the excluded vendors listing are to be approved.

22. The system of claim 16, further comprising:

means for approving the charge authorization request if no charge restriction specified by the account holder for the charge account will be violated by the charge; and

means for declining the charge authorization request if any charge restriction specified by the account holder for the charge account will be violated by the charge.

1 23. A computer program product within a computer usable  
2 medium for managing charging transactions, comprising:  
3 instructions for enabling a designation, by an owner of  
4 a chargeable account number and in association with the  
5 chargeable account number, of at least one specified allowed  
6 vendor and a corresponding amount limit chargeable by the  
7 specified allowed vendor; and  
8 instructions for determining whether a current charging  
9 transaction for a specified amount by a charging vendor to  
10 the chargeable account number is within the designation.

1 24. The computer program product of claim 23, wherein the  
2 instructions for enabling a designation of at least one  
3 specified allowed vendor and a corresponding amount limit  
4 chargeable by the specified allowed vendor further comprise:  
5 instructions for enabling specification of the  
6 corresponding amount limit as a specified amount within a  
7 defined duration of time.

1 25. The computer program product of claim 23, wherein the  
2 instructions for enabling a designation of at least one  
3 specified allowed vendor and a corresponding amount limit  
4 chargeable by the specified allowed vendor further comprise:  
5 instructions for enabling specification of a number of  
6 times which the at least one specified allowed vendor is  
7 permitted to make a charging transaction within the  
8 corresponding amount limit on the chargeable account number.

1 26. The computer program product of claim 23, further  
2 comprising:  
3 instructions for enabling a designation, by the owner  
4 of the chargeable account number and in association with the  
5 chargeable account number, of at least one specified

[illegible]

1 27. A computer program product within a computer usable  
2 medium for limiting charging transactions, comprising:  
3 instructions, responsive to receiving a charge  
4 authorization request for a charge on a charge account  
5 designated by a unique charge account number, for  
6 determining whether an account holder for the charge account  
7 has specified vendor-specific charge restrictions for  
8 charges against the charge account;

9 instructions, responsive to determining that the  
10 account holder has specified vendor-specific charge  
11 restrictions for the charge account, for determining a  
12 vendor identifier from the charge authorization request and  
13 comparing the vendor identifier to a list of vendor  
14 identifiers for the vendor-specific charge restrictions; and

15 instructions, responsive to identifying a match between  
16 the vendor identifier from the charge authorization request  
17 and a vendor identifier within an entry in the list of  
18 vendor identifiers for the vendor-specific charge  
19 restrictions, for employing a charge restriction associated  
20 with the matching entry in responding to the charge  
21 authorization request.

1 28. The computer program product of claim 27, wherein the  
2 instructions for determining whether an account holder for  
3 the charge account has specified vendor-specific charge  
4 restrictions for charges against the charge account further  
5 comprise:

6 instructions for employing the unique charge account  
7 number to retrieve account records for the charge account.

1 29. The computer program product of claim 28, wherein the  
2 instructions for determining a vendor identifier from the  
3 charge authorization request and comparing the vendor

4 identifier to a list of vendor identifiers for the vendor-  
5 specific charge restrictions further comprise:

6 instructions for comparing the vendor identifier from  
7 the charge authorization request to each vendor identifier  
8 within an entry in an allowed vendors listing associated  
9 with the charge account; and

10 instructions for comparing the vendor identifier from  
11 the charge authorization request to each vendor identifier  
12 within an entry in an excluded vendors listing associated  
13 with the charge account.

1 30. The computer program product of claim 29, wherein the  
2 instructions for employing a charge restriction associated  
3 with the matching entry in responding to the charge  
4 authorization request further comprise:

5 instructions for determining whether a charge amount  
6 from the charge authorization request would exceed an amount  
7 limit specified within an entry in the allowed vendors  
8 listing; and

9 instructions for determining whether the charge would  
10 exceed a rebill limit specified within an entry in the  
11 allowed vendors listing.

1 31. The computer program product of claim 30, wherein the  
2 instructions for employing a charge restriction associated  
3 with the matching entry in responding to the charge  
4 authorization request further comprise:

5 instructions for determining whether the allowed  
6 vendors listing specifies that charge authorization requests  
7 from all vendors not identified within the allowed vendors  
8 listing are to be declined.

1 32. The computer program product of claim 30, wherein the

instructions for employing a charge restriction associated with the matching entry in responding to the charge authorization request further comprise:

instructions for determining whether the excluded vendors listing specifies that charge authorization requests from all vendors not identified within the excluded vendors listing are to be approved.

33. The computer program product of claim 30, further comprising:

instructions for approving the charge authorization request if no charge restriction specified by the account holder for the charge account will be violated by the charge; and

instructions for declining the charge authorization request if any charge restriction specified by the account holder for the charge account will be violated by the charge.

PERSONALLY CUSTOMIZABLE CREDIT CARD ACCOUNTS

## ABSTRACT OF THE DISCLOSURE

5 Account holders may specify vendor-specific charge  
restrictions for charging transactions against their  
accounts, where each vendor-specific charge restriction  
includes a unique identifier for the corresponding vendor to  
10 which the charge restriction is applicable. The charge  
restriction may be an exclusion from approval of all charge  
authorization requests, an amount limit on charge  
authorization requests which may be approved, a "rebill"  
limit on the number of times subsequent charge authorization  
15 requests may be approved, or a combination of such  
restrictions and/or other restrictions. When a charge  
authorization request is received for a charge against an  
account having vendor-specific charge restrictions set by  
the account holder, the vendor identifier is extracted from  
20 the charge authorization request and employed to determine  
whether any charge restrictions are applicable to the  
requesting vendor. The vendor-specific charge restrictions  
for a particular vendor may be specified by the account  
holder either before or after an initial charge transactions  
involving that vendor, with the vendor identifier either  
25 manually entered by the account holder or automatically  
extracted from an account transaction record.



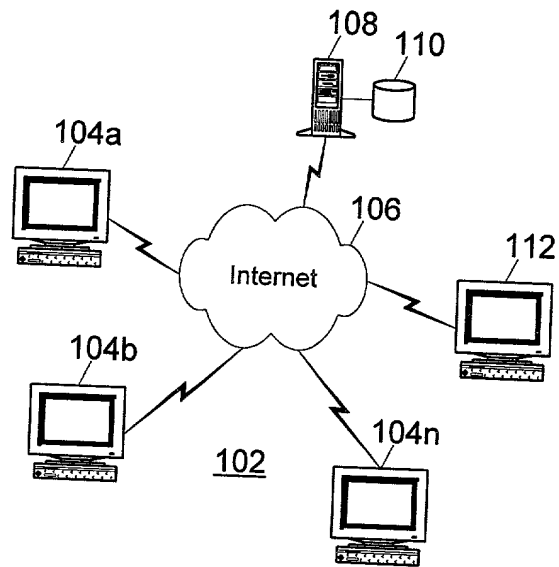


Figure 1

110 {

202a 202b 202c 202n

Account Information

Account Number 204

Available Balance 206

212 214 "Allowed" Vendors 216 218 224

Identifier	Name	Amount Limit	Rebill Limit
:	:	:	:

208 {

220 "Excluded" Vendors 222 210

Identifier	Name
:	:

226

}

Figure 2

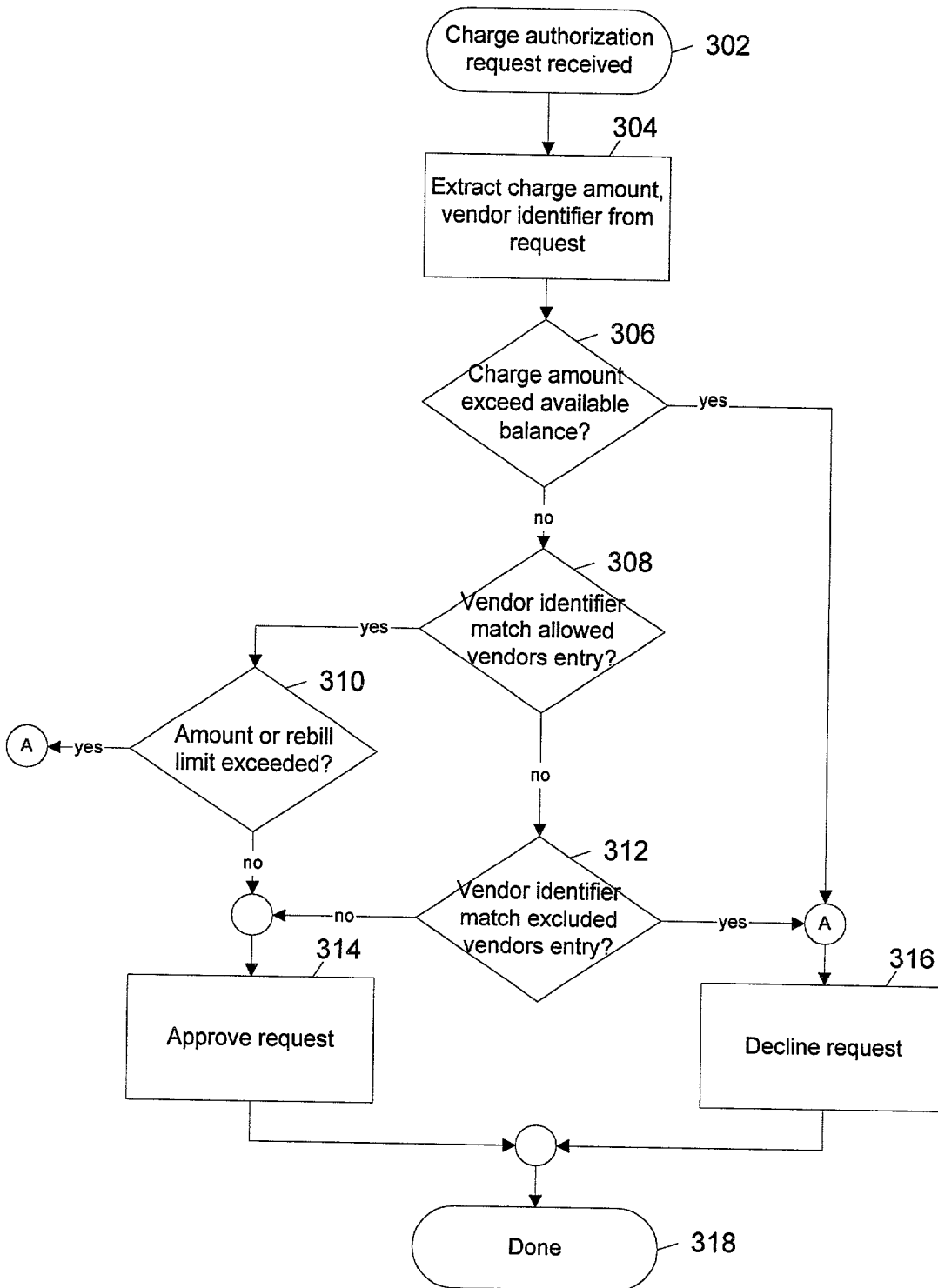
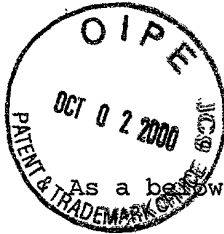


Figure 3



DECLARATION AND POWER OF ATTORNEY FOR  
PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

PERSONALLY CUSTOMIZABLE CREDIT CARD ACCOUNTS

the specification of which (check one)

X is attached hereto.

\_\_\_ was filed on \_\_\_\_\_  
as Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s): Priority Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year)	___ Yes ___ No
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Serial #)	_____ (Filing Date)	_____ (Status)
---------------------------------	------------------------	-------------------

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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